

## CLAIMS

A process for producing propylene oxide, comprising the following steps:

oxidation step: a step of obtaining cumene hydroperoxide  
5 by oxidizing cumene;

epoxidation step: a step of obtaining propylene oxide and cumyl alcohol by reacting a cumene solution containing cumene hydroperoxide with an excess of propylene in a liquid phase in the presence of a solid catalyst; and

10 hydrogenolysis step: a step of obtaining cumene through hydrogenolysis of cumyl alcohol obtained in the epoxidation step, and recycling the cumene to the oxidation step as the raw material of the oxidation step,

wherein the concentration of organic acids in cumyl  
15 alcohol supplied to the hydrogenolysis step is adjusted to 200 ppm by weight or less.

2. The process according to claim 1, wherein the concentration of organic acids in cumyl alcohol is adjusted to 50 ppm by weight or less.

20 3. The process according to claim 1, wherein the solid catalyst of the hydrogenolysis step is a copper-based catalyst.

4. The process according to claim 2, wherein the solid catalyst of the hydrogenolysis step is a copper-based catalyst.